

# THE TECH

VOL. XXVIII. No. 31

BOSTON, MASS., WEDNESDAY, DECEMBER 9, 1908

PRICE THREE CENTS

## SOCIETY OF ARTS HEARS LECTURE

**"Improvements in Charles River Basin" Subject of Talk**

### BENEFITS DISCUSSED

**Sectional View of Dam and Works Shown by Excellent Lantern Slides**

"Improvements in the Charles River Basin," was the subject of an interesting talk by Chief Engineer Hiram A. Miller of the Charles River Basin Commission, to the members of the Society of Arts last evening, in Huntington Hall. The talk was illustrated by a number of excellent lantern slides, showing sectional views of the dam and the works.

Mr. Miller discussed the various engineering problems presented by the project and also the way in which they were met, and Secretary Youngerman told of the beneficial results expected from the undertaking.

The dam will be of vast size when completed, 500 feet from wall to wall carrying a roadway connecting the Charles River Boulevard and the boulevard on the Boston side of the river. The project is not unique, being similar to the Hamburg lagoon and the lagoon of the World's Fair at Chicago.

The dam is to have two locks, one on the Cambridge side for motor boats and small craft, and another on the Boston side for larger craft.

The dam will keep the water at constant level, thus avoiding the exposure of the mud flats.

The dam and embankments have been arranged to allow every chance for the enrichment of Boston's already magnificent park system. The basin will afford one of the best courses for crew races in the country, besides affording ample opportunity for canoeing and boating during the summer, and skating in winter, as soon as fresh water has replaced the salt.

## PROF. LELAND WRITES

**"Boiler Accessories" Added to Correspondence Course**

Prof. Walter S. Leland, of the Naval Architecture department, has published a textbook on "Boiler Accessories," which has been added to the home study series of the American School of Correspondence. The work takes up its subject from a practical point of view, giving well arranged descriptions of the various details of modern boiler room practice.

The subdivision of the subject treated include settings for boilers, furnace construction, draft, gauges, feed and blow-off apparatus, safety valves, piping, fittings and insulation. About 40 pages are devoted to the operation and care of boilers, and considerable information is presented concerning feed water and fuels.

## NAVY IS THE SUBJECT

"With the Fleet Around Cape Horn" was the subject of a most interesting talk by Mr. James B. Connolly, the well known writer of sea stories, to the members of the Technology Club last evening at the third smoke talk of the season.

Mr. Connolly was well qualified to speak on this subject as he accompanied the fleet on the trip around South America and his account of the varied experiences of the voyage, together with stories of the navy in general, was enjoyed by more than a hundred members and their friends.

## ELECTRICALS MEET TOMORROW NIGHT

**Louis A. Fergusson of the Chicago Edison Co., will be the Speaker**

### TRIP TO FORE RIVER

**Battleship North Dakota, and Ship Yards Visited at Last Excursion**

Tomorrow evening the Electrical Engineering Society will hold its December meeting at the Union. Dinner will be served at 6:30. Louis A. Fergusson 1888, vice president of the Chicago Edison Co., and president of the A. I. E. E., is the speaker of the evening.

This is the first of three dinners that are being arranged, as they were last year, through the efforts of Prof. D. C. Jackson, the financial part being taken care of by friends of the society whose names have not been given.

The Fore River ship yard was visited by the Electricals on their second excursion of the year. Through the courtesy of Rear Admiral Bowles, president of the Fore River Co., passes were obtained for groups of not more than thirty men to inspect the plant on Thursday, Friday and Saturday afternoon. A number of the students accepted the opportunity and spent a pleasant two hours in the machine shop, power house, molding and casting rooms, and among the hulls of small steamers and submarines. The "North Dakota" was unfortunately closed to visitors, but the 12,000 H. P. turbines for the vessel were seen in course of construction in the machine shop.

A third excursion is being arranged by the Program Committee, composed of H. S. Osborne, F. M. Loud and Capt. C. C. Carter, for three afternoons of next week. Announcement of this will be made at the next meeting.

## RECTIFIER TESTED

**Invention Satisfactory According to Test by Electricals**

The alternating current rectifier, invented by two Institute instructors, Harold G. Crane and Waldo V. Lyons of the Electrical Engineering department, is now being tested with the purpose of perfecting it for the market. The rectifier has been found satisfactory for such use as the charging of storage batteries, and its financial economy invention over the mercury arc machine, has already made it popular; several orders have been given in advance.

## STEAM TABLES REVISED

**Professor Berry Adds Many New and Valuable Chapters**

In bringing out the second edition of his "Temperature-Entropy Diagrams," Prof. Charles W. Berry has more than doubled its size. The revised work contains additional chapters on Mollier's total temperature-entropy diagram, thermodynamics of mixtures of gases and vapors, the gas engine indicator card, the multiple fluid of waste-heat engines, steam engine cylinder efficiency, liquefaction of gases, refrigerating processes and the warming engine. Considerable space is devoted to irreversible adiabatic changes and losses due to throttling and the design of steam nozzles. The book as it stands requires a good working knowledge of thermodynamics for its intelligent use, but contains material of such value as to make it welcome to all who have occasion to study the problems and conditions treated within its pages.

## TECH WILL HEAR PRES. MACLAURIN

**Future Head of Institute Will Address Students at Convocation**

### MAY DISCUSS POLICY

**Resignation as Physics Head at Columbia Accepted—Comes Here May 31st**

Technology students are soon to hear their new president speak. On Tuesday next, President-elect Maclaurin will address the Institute at a convocation in Huntington Hall. Whether this convocation will be held during the noon hour or at 4 o'clock, is not as yet certain. What will be the subject of Dr. Maclaurin's talk is not known.

In the evening of the same date a Corporation and Faculty dinner will be held in the Union to meet President Maclaurin.

This will be the first opportunity that Tech men will have had to hear the newly elected president, and it is certain that great interest will be manifested in his talk. It is very possible that Dr. Maclaurin will say something about his future policy in connection with the Institute, and in this case every Tech man will be vitally concerned. Moving the Institute has long been advocated. In an interview Dr. Maclaurin has said that he believes this possible and probable, and he may touch upon these plans.

Dr. Maclaurin has presented his resignation as professor of mathematical physics of Columbia University, and at a meeting on Dec. 17 the latter body accepted this resignation which will go into effect on May 31 next, at which time Prof. Maclaurin will enter upon his duties as president of the Institute.

## 1908 HOLDS REUNION

**Date Announced for Annual Dinner—Many Noted Speakers**

Mr. Frederick H. Fay 1893, was the speaker at the dinner of the class of 1908 last night at the Union. Mr. Fay spoke on the development of the Alumni Association since the very start.

The first indications of the organization of any form of alumni association began with the getting together of the graduates of the Walker and Rogers memorial exercises.

The next step was the establishing and publishing of the Technology Review by the Association of Class Secretaries which was later taken over by the Alumni Association.

The first grand all Technology reunion grew out of the announcing by the Technology Northwestern Alumni Association that the members were coming to Boston in a body. The subsequent development of the idea was to a great extent occasioned by the talk about the Harvard-Tech merger.

Feeling ran high over the matter and nearly 1600 former students, or forty per cent of the total number of graduates, attended the reunion.

During that year the Alumni body took over the management of the Tech night at the pops. One of the most impressive things about the reunion was the gathering of 1000 Tech men on the beach at Nantasket during the picnic.

At the banquet it was decided that the merger should not take place on account of pecuniary reasons and so the Alumni Income Fund was established. Another result of the reunion was the election of former Tech men to the Corporation so that at present a majority are graduates of the Institute.

On January 14 will be held the annual banquet of the Alumni Association. (Continued on page 3.)

## PLANS FOR HOCKEY SEASON ARRANGED

**All of Last Year Team Back With the Exception of Ford**

### MANY TRIPS ARRANGED

**Games with Harvard, Williams, Amherst and Dartmouth Scheduled**

Prospects for a successful season in hockey are exceptionally bright this year. Games have already been arranged with Harvard, Dartmouth, Williams, Amherst, Brae Burn and Andover and negotiations are going on for a game with Yale and some of the other large colleges.

All of last year's team are back with the exception of Capt. Ford, and a repetition of last year's successful season is looked for by Capt. "Bill" Kelly. A number of ex-college players of note from last year's college teams are reported to be willing to come out for the team.

A meeting will be held today and the team will be called out for the first time. All members of last year's team who are back have signified their intention of coming out, and with the exception of Ford's place, all the positions can be placed.

Billings will take his old position of goal, and Gould and Taylor will probably alternate as cover points, as they did last year. It is rumored, however, that a couple of men are down from Canada, so that there is liable to be some close competition for the goal and cover point positions, as well as that of point which Davis filled last season.

Manager William J. O'Hearn, Capt. W. J. Kelly, and H. W. Paine are the forwards back in the game.

The team this year will look to the student body for financial backing as the state of the money affairs of the Athletic Association will not permit of help from them to any great extent.

The team last year had an exceptionally successful season, defeating their opponents in every game during the winter, except that with Yale and the second game with Princeton, which was played by electric light, something which the Institute players were not accustomed to.

The schedule as arranged so far by Manager O'Hearn follows:—

Dec. 31—Dartmouth at Brae Burn.  
Jan. 6—Harvard at Harvard.  
Jan. 9—Crescent Hockey Club at Franklin Field.  
Jan. 16—Andover at Andover.  
Feb. 4—Williams at Williamstown.  
Feb. 6—Amherst at Amherst.  
Feb. 17—Brae Burn at Brae Burn.

## TECH CLUB HAS SMOKER

The Technology Club of Philadelphia will hold a smoker on Saturday evening, Dec. 12, at 8 o'clock, at the T Square Club, 1206 Chancellor street.

Mr. Ernest Harrah 1904, of the Midvale Steel Company, will present the paper of the evening.

At the last meeting thirty members were present, representing classes all the way from 1875 to 1908.

## CALENDAR

WEDNESDAY, DEC. 9.

1:00 P. M.—Hockey candidates in 26 Rogers.

THURSDAY, DEC. 10.

1:00 P. M.—British Empire Association at Union.

4:15 P. M.—Candidates for orchestra in 44 Rogers.

5:30 P. M.—Dr. Mann's Bible Class in Union.

# THE TECH

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Wednesday, December 9, 1908.

The Tech takes pleasure in announcing the appointment of Joseph Ignatius Murray 1912, to the news staff, and of Sidney Carlisle Neff 1912, to the business staff.

## COMMUNICATIONS

The Editor of The Tech:—

The Institute is now undergoing a great transition. Whether she will emerge from it a rich and powerful university of engineering, or whether she will fall in the struggle with adverse conditions is as yet uncertain. The outcome depends entirely on the loyalty of the students, past, present and future, and upon her reputation for turning out men who do everything they attempt better than anyone else can do it.

Under these conditions no more important step could have been taken by the students of the Institute than that of entering major intercollegiate sports. A really fine baseball team could not help but strengthen the position of the Institute. It would show to begin with that the men of the Institute were proud of representing the Institute, a fact which the public (not without cause) is beginning to doubt. It would show that an engineer graduated from here would at least be likely to have a physique which would command the respect of his men, a consideration which is injuring the Institute not a little at present. It would give men a chance of representing their college without having to submit to the one-sided development demanded by the track. Above all, it would show the prep. school boys that the Institute men have some "spirit." It is this quality in a college more than anything else which attracts the best men to it.

The team might do even more. It might be able to aid the Institute as did the Carlisle football team some years ago, when it built the University a new lecture hall and gymnasium from the proceeds of its games. It would certainly have an influence in keeping the Institute in touch with the alumni through bringing the latter back to the games. A really good team would be invaluable.

If a good team will help the Institute it hardly needs to be said that a poor one will injure it. A half-coached, ill-equipped and unsupported team, well-whipped for one season, will disgust more alumni, cast more discredit on the ability of the students and generally injure the Institute more than any other one thing which could be devised. Everyone will agree, I think, that rather than this we should have better left things as they were.

What have we, however, done? All

men interested in varsity baseball are asked to sign slips. An enormous number did so. A meeting was then called. An attendance of about four hundred was expected and it was supposed that those opposed would be on hand to argue against the organization of a team. As a matter of fact, there were only about thirty men there. Of these one was opposed to the measures taken, but he said not a word. The men who had signed the lists, the members of the athletic association, the members of other teams and even many of our best ball players were conspicuous by their absence. Under these conditions it is not surprising that a team was organized by a body composed half of enthusiastic baseballists, and half of freshmen who did not know any reason for not organizing it.

Those men who were not at that meeting have two courses now open to them. They can express their desire to have that team abolished by writing to The Tech or the Athletic Association, if they do not write they must stand ready with every bit of their share of time, energy, and money to make that team the finest in the country.

I imagine some will do neither. If a very large number do not take the necessary interest to express their opinion, it seems to me that something is radically wrong with the education given by the Institute.

Will the man who cannot delay his lunch five minutes to vote on a question which may involve the honor of his Alma Mater, turn over his hand to save an employer's property? Will he ever contribute as an alumnus to the support of his Alma Mater? Should we, then, continue to graduate such men?

John Hamilton Ruckman 1909.

To the Editor of The Tech:—

A few years ago an effort was made to introduce the misspelling "thru" for the word through. This was supposed to be pretty well laughed out of existence, but of late has reappeared among the students of the Institute. Just how this corpse of a defunct folly came to be resurrected, it is not easy to see; but some trouble will be saved by students handing in written work to the English department if the writers will bear in mind that this freak of false orthography has never been recognized here.

Arlo Bates.

*Thos. F. Galvin*

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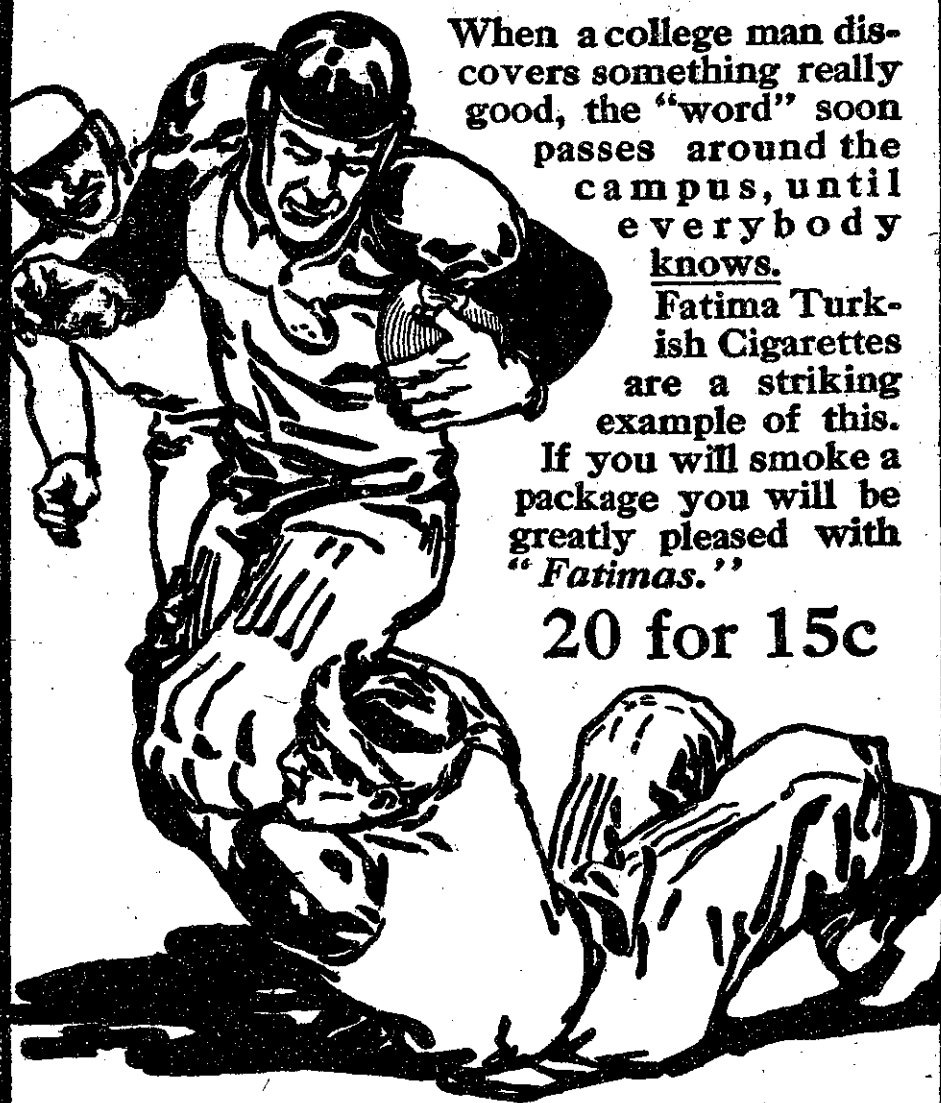
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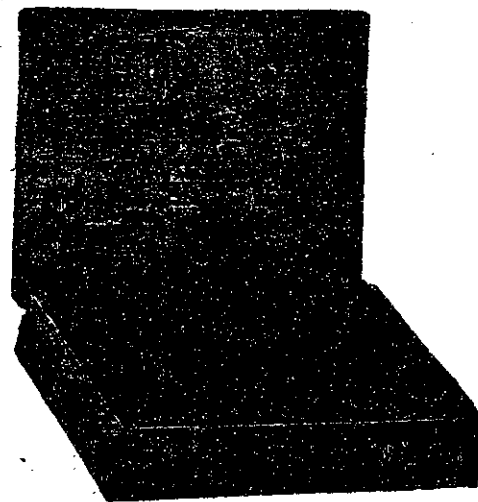


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ALWAYS EASY

## COMMUNICATION

In defense of the Institute Committee I consider it only fair to make some statement concerning their action in refusing class pipes to 1911. Although perhaps it has never been officially recognized as a custom that only the winning class on Field Day should get class pipes, this has long been taken as a matter of course. Otherwise freshmen classes heretofore might have procured pipes and smoked them whenever and wherever they had the hardihood. Moreover, in preparation for Field Day class pipes have always been mentioned as one of the fruits of victory.

When entering into the contests on Field Day every man on the 1911 teams realized that he was fighting, among other things, for the right of his class to smoke class pipes.

After the defeat of Field Day the majority of the members of the class felt, and took it as an understood fact, that they ought not to smoke class pipes. There were many who naturally regretted this and at a meeting of the class directors the latter decided to present the matter to the Institute Committee.

Accordingly at the next meeting of this committee the class of 1911, through its own representatives, asked that this custom be defined once and for all, feeling that the Institute Committee was the proper body before which to bring such a question.

The committee at first was not in favor of settling the matter, but when they understood that class of 1911 wished them to define the custom they gave as their decision that during their sophomore year the class should not smoke class pipes. After the second year all hard feelings are supposed to be at an end and the committee decided that any class, whether winning or losing Field Day, may smoke class pipes after that year. But no class losing both Field Days shall at any time smoke such pipes on Rogers steps. This was the decision which the Institute Committee reluctantly gave at the request of a losing class, believing that if any custom of the kind was to be preserved that this would be a fair one.

The sophomore class is most certainly NOT allowing itself to be "bluffed" by a few students, who have not the authority to do so. Whether the Institute Committee has power to settle such matters does not devolve upon me to say, but I am most firm in my convictions that whatever else may be said in regard to my class it must be admitted that 1911 can prove good losers as well as hard fighters.

Don R. Stevens 1911.

At the 1910 class meeting, Monday, the date of the class dinner was announced for Friday, Dec. 18. It was announced that the election of the 1910 Junior Prom Committee was to take place immediately.

Nominations for the committee close Friday, Dec. 11, at 4 P. M., at the cage.

## 1908 HOLDS REUNION

(Continued from page 1.)

tion at which the following men will speak:—

Dr. MacLaurin, the president-elect, Dr. A. A. Noyes, acting president, Dean Burton, Hon. E. S. Draper 1878, Dr. R. S. Woodward, president of Carnegie Institute of Washington, and Hon. Gifford Pinchot, Forester of the U. S. Department of Agriculture.

A few details of the reunion in June were also planned.

The following member of the class of 1908 were elected to the Reunion Committee:—

H. A. Rapelye, R. P. Wyler, T. S. Reid, H. S. Osborne, and H. T. Gerrish; to the Construction Committee:—T. S. Reid, H. T. Gerrish, and R. P. Wyler.

Bowdoin beat Technology out for second place in the New England Inter-collegiate meet last spring because of Tech's weakness in the weight events. Coach Kanaly wants to put especial attention on this matter and if the physically big men of the Institute will come out and train with some sort of consistency there is no reason why Tech should not be as strong as any other college in the conference in these events. Training is now being carried on daily in the lot in front of Lowell. All men who have performed with the weights are urged to come out and give what points they can to the new men.

The track team is particularly in need of new men here on account of the loss of Fred Moore and W. Morrison. Nisbet 1909, is the only good discus thrower who has appeared in some time. There are men at the Institute who could probably beat him if they would only get out and try. Coach Kanaly does not care if a man has to start at the beginning, in fact there is a distinct advantage in ignorance of some of these events as it permits of getting a recruit started right. Candidates need not get into track clothes for this practice. This training should provide each class with contestants for the indoor championship meet which will be held in the Gym on the eighth of January.

## MILLS IS CAPTAIN

Leonard O. Mills 1910, was elected captain of the cross-country team for 1909. Mills will without doubt be the backbone of the team next year as he is the fastest long distance runner left at the Institute and is the only member of this year's team who has won his "T" and will be back. Risdale Ellis 1909, who was captain of the team this year, proved an ideal leader and will furnish Mills a worthy example. L. O. Mills has speed and nerve and with the material that he has shown up this fall he will be able to get a first rate team together.

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AND

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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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## NOTICES

1912 BASKETBALL PRACTICE—At  
Gym, Saturday, 3 P. M. A chance to  
show your class spirit. All come out  
for the team.

BIBLE CLASS—Rev. Stockdale's Bi-  
ble Class will meet tomorrow, from  
5:30 to 6:15 P. M., in the Union.

BRITISH EMPIRE ASSOCIATION—  
Committee meeting on Thursday, Dec.  
10, at 1 P. M., in the Union.

ORCHESTRA—All candidates for  
the Tech orchestra meet Thursday at  
4:15 P. M., in 44 Rogers. Bring in-  
struments.

1911 RELAY TEAM—Proofs of team  
photo may be seen at cage. Sign back  
of proof you like.

On account of lack of interest in the  
lyric competition the date on which  
the lyrics must be in has been post-  
poned to Friday, Dec. 11.

1912 CLASS PIPES—Freshmen desir-  
ing class pipes before Christmas must  
order this week from W. M. Ruby 1912,  
or R. S. Walsh 1912.

FRIDAY, 4 P. M.—Nominations for  
1910 Junior Prom Committee close at  
the cage.

HOCKEY CANDIDATES—All men  
who have ever played ice hockey before  
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ers today at 1 P. M., and come out for  
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1909—Nominations for the senior  
portfolio committee may be left at the  
cage for the election committee. Each  
nomination must be signed by at least  
10 members. Nominations close Satur-  
day, Dec. 12, 1908.

## FACULTY NOTICE

CONVERSATIONAL TALKS IN GER-  
MAN—The topic of Dr. Schumacher's  
talk next Tuesday, the eighth instant,  
will be German industries, commerce,  
and agriculture.

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Please send information to R. O. Wood.

LOST—A gold locket with initials  
B. S. B. Two dollars reward. "Skeez-  
icks," cage.

LOST—Soft green felt hat and coat  
in social room of Union, between 1:30  
and 2 P. M., Dec. 8. Return to L. L.  
Downey, care of the cage.

LOST—Peabody's Steam Tables, name  
F. D. Applin 1909, inside front cover.  
Finder please return to same or to W.  
D. Green, cage.

WANTED—Double elephant board.  
Address cage, Seligman 1911.

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